AEE, YSTSD
SBR No: 150/21-22
Date: 28/3/2022

P.W.G. 17 — 1st and final Bill — Original/Duplicate/Triplicate

NO — **CONTRACT CERTIFICATE** — Reference paras 158 & 170

Division Yelahanka — Sub division Yelahanka New Town — Date

Bills received No — YNK-DBR No..... Date..... — Sub-divisional — Cash book vr No

Sheduled Docket No — Divisional — Date

Name of work(as per sanctioned estimate) :- — Head of account

Work Code:004-21-000029

NAME OF WORK : Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Name of contractor and full address :- — **Sri.T.S.Kothanda Raju, (Proprietor R K Constructions, Prprietor Shree Charan Constructions), No 05, Sree Sri Nivas Bagath Enclave, Kattigenahalli village, Yelahanka Post, Bangalore**

Reference to agreement No :- 15 — **Estimated cost : 100.00** — **Work order No :**

Certified that the measurments were taken by me on 25/03/2022 and recorded on pages 585501 to 585535 of measurment book No 5856 and the work is satisfactorily executed by the contractor.

Signature of contractor — Asst. Engineer

Certified that the measurments were taken by me on 25/03/2022 and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer — ಸಹಾಯಕ ಅಭಿಯಂತರರು ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ. ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within
2) Deduct amount to be held in reserve being----percent Rs----------%-------
3) Balance---
4) **Deduct payments**
   a) Amount of previous payment as in divisional/sub divisional cash book vr No---------dated----------S.D No----------Amount adjusted
   b) Cost of payments/stores or other materials supplied now made recovery of
   Amount paid on this bill by cheque/cash
   Total
5) Balance being unpaid value of work done held in reserve
6) Deduct cash of advance made on divisional/sub divisional cash book
7) Net amount due to or from contractor

UN ADJUSTED ITEMS

8) Advance to contractor for materials to site(as detailed within)
9) Value of government materials supplied

TOTAL AMOUNT UN-ADJUSTED

Total-	9886496=00
CInst	98865=00
SCInst	98865=00
IT	98865=00
LC	98865=00
CBE	98837=00
LB	88727=00
TD	494074=00
CH	9392422=00

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum
(in final settlement of all demand)
Witness
1)
2)

Dated signature of contractor
paid by me cheque No dated
Cash Rs.....

Date — Initials of officer making payment

Reciept Stamp

Audited & Admitted for Rs. 9886496=00

93 92 422=00 by Cheque

and Rs. 49 4 074=00 by adjustment

Date

Executive Engineer

Accts Supdt
yelahanka Division
BBMP

Exe. Engineer
yelahanka Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

Final E- Bill

S.No	Description of item's	Unit	Previous		Present			Total Up to Date	
			Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	KSRB 4.2.7. Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm anddown size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with super plasticisers @31ts confirming to 189103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Cum			71.09	6911.44	491339.45	71.09	491339.45
2	Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391 cum, with super plasticisers @0.2251ts, machine mixed, well compacted for plain chajja of 8.5 cms average thickness, upto ground floor level, including cost of all materials, labour, HOM finishing, curing, complete but excluding cost of reinforcement as per specifications.	Sqm			8.51	568.22	4832.71	8.51	4832.71
3	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications and Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5 m. or part there of cost of labour, complete as per specifications.- do- TMT bars Fe 500	Tonne			9.14	99036.47	905193.34	9.14	905193.34
4	Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5m. Or part there of cost of labour complete as per specifications.specifications.	Tonne			9.14	847.42	7745.42	9.14	7745.42
5	Providing and removing centering, shuttering, strutting,propping etc., and removal of form work for columns, pillars, postand struts, square or rectangular polygon in plan including cost of allmaterials, labour complete as per specifications.	Sqm			104.90	542.84	56943.92	104.90	56943.92

6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labourcompleteas per specifications.	Sqm				46.04	482.79	22227.65	46.04	22227.65
7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications.	Sqm				8.51	392.16	3337.28	8.51	3337.28
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labourcompleteas per specifications.	Sqm				139.17	357.04	49689.26	139.17	49689.26
9	Providing and removing centering, shuttering. Strutting, proping etc. and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as perspecifications.	Sqm				246.22	524.71	129194.10	246.22	129194.10
10	Providing & applying water proofing to concrete surfaces usinghigh quality polymer-modified bituminous compounds (confirming to ASTM Sqm D 5147) reinforced with non woven polyester fabric, weighing 180gml sqm granular finish 4mm thick by torch on application method confirming to the properties indicated below. It shall be provided after priming the surface using bitumen primer at 0.2 ltr Isqm. Detailed specification & Methodology 1. Membrane thickness 4mm (+ or - 5%) 2. Tensile strength - Longitudinal 790 N15cm Transverse 730 N15cm 3. Elongation of Membrane - Longitudinal 65% Transverse 69% 4. Tear Resistance - Longitudinal 180 NTransverse 190 N 5. Lap joint strength - Longitudinal 750 N15cm Transverse 550 N15cm 6. Puncture Resistance - Static 1.4 Dynamic 1.3 7. Water absorption - < 0.15% 8. Water permeability - Nil 9. Chemical resistance - Chloride, sulphate and Nitrate The area to be water proofed shall be free from loose aggregate, dust free and in dry condition.	sqm				246.39	487.16	120028.92	246.39	120028.92
11	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.	Sqm				124.51	1126.58	140273.29	124.51	140273.29

12	KSRB 5-14 Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.								
	A)Ground floor:-								
13	**B)First floor:-**	Sqm			64.40	1046.82	67415.21	64.40	67415.21
		Sqm			58.52	1083.53	63408.18	58.52	63408.18
14	Fixing of Door frames in an existing opening including embedding frame in floor and walls after cutting masonry for embedding holdfasts including providing & fixing 3/4 of MS hold fasts of size 200x20x3mm for each side and fixed to the frame and embeded with PCC 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size), painting two coats of coal tar to sides of frames, making good the damages to walls & floor as required and disposal of debris including cost of materials, labour, HOM of machineries complete as per specifications all as per the drawing and as per the directions of the Engineer-in-charge of the work.	No,s			5.00	1547.57	7737.85	5.00	7737.85
15	Providing wood frames of doors, windows, clerestorywindows, ventilators and other frames, wrought, framed or assembledincluding making plaster groves (excluding cost of cement concrete andside clamps), but including cost of materials, labour, HOM complete asper specifications.White Sal wood frames.	Cum			0.31	68596.04	21299.07	0.31	21299.07
16	Providing and fixing in position fully panelled wood shutters for doors, styles and rails of 30mm thick with bottom and lock rails 180mm wide top rail and styles 1 OOmm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures)	Sqm			10.40	4922.54	51169.80	10.40	51169.80
17	KSRB 15-3: Providing 12mm thick plain plastering in single coat to internal ceiling & RC surfaces in cement mortar 1:3 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc , compelte & as per specification and as directed by Engineer.	Sqm			219.48	272.53	59813.52	219.48	59813.52
18	KSRB 15-3: Providing 15mm thick plain plastering in single coat to internal masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc , compelte & as per specification and as directed by Engineer	Sqm			449.70	256.67	115424.50	449.70	115424.50

19	KSRB15-7 Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.									
	A)Ground Floor:-	Sqm			574.11	36.25	20811.31	574.11	20811.31	
20	**B)First Floor: -**	Sqm			669.18	42.55	28473.40	669.18	28473.40	
21	KSRB15-3 Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering, . Providing and removing scaffolding, including cost of materials, labour, curingcomplete as per specification.	Sqm			338.04	283.86	95956.03	338.04	95956.03	
22	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to match shade of granite slabs include laying POP on finished surface,including cost of materials, labour charges, etc., complete as per specifications.									
	A)Ground Floor: -	Sqm			429.87	3103.07	1333901.19	429.87	1333901.19	
23	**B)First Floor: -**	Sqm			257.29	3105.17	798913.66	257.29	798913.66	
24	Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, completeas per specifications.	Sqm			9.92	1442.04	14297.83	9.92	14297.83	
25	KSRB 14.9-1 Providing and laying M-15 Cement concrete flooring,50mm thick with metallic concrete hardner topping,under layer of 35mm thick M-15 cement concrete using broken granite metal of 20mm and down size,and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix :2 granite metal 10mm nominal size) by volume with which metallic hardeing compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt),including finishing cost of materials labour,curing complete as per specifications									
	A)Ground Floor:-	Sqm			333.29	714.87	238259.02	333.29	238259.02	
26	**B)First Floor: -**	Sqm			224.39	716.97	160877.31	224.39	160877.31	
27	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, gridding the edge to half/full round wherever required, labour curing complete as per specification.									
	A)Ground Floor	Sqm			64.53	1395.76	90068.39	64.53	90068.39	
28	**B)First FloorTerrace: -**	Sqm			217.21	1397.86	303632.67	217.21	303632.67	

29	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications									
	A)Ground Floor:-	Sqm			600.03	88.37	53024.65	600.03	53024.65
30	**B)First Floor: -**	Sqm			683.04	94.66	64656.80	683.04	64656.80
31	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.									
	A)Groumd Floor:-	Sqm			328.42	115.56	37952.50	328.42	37952.50
32	**B)First Floor: -**	Sqm			335.58	119.75	40185.11	335.58	40185.11
33	KSRB 7.10 : Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. With 1.2mm thick, bottom section weight 0.695 kg/m; and shutter comprising top and bottom section of size 40mmx18mm,1.25mm thick 0.417kg/m; shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc; and providing and fixing 5.5mm thick plain glass for shutters fitted with rubber beading aluminium sections anodised 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any rush and coated with greasy for non adhesion of mortor and other sticky materials.(this fixtures, labhour and HOM at machinery complete as per specifications.Using alluminium section powdered coated to a minimum									
	A)Ground Floor: -	Sqm			17.46	4956.53	86541.01	17.46	86541.01
34	**B)First Floor: -**	Sqm			21.60	4962.82	107196.91	21.60	107196.91

35	Providing and fixing MS Grill over existing Compond Wall as Per using 16mm x 16mm M.S Square Rod at 150mm c/c spacing and 6mm x40mm MS.flats at horizontal and 6mm x12mm M.S.flat for ornamental Design at the vertex of every vertical rods,including welding ,grinding wherever necessary.All the steel surface should be throughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc complete.The work includes cost of all materials ,labour charges for all items of work ,hire charges for welding,cutting and grinding equipment,and electricity charges etc,Complete as per specification									
	A)Ground Floor: -	Sqm			72.00	6082.65	437950.80	72.00	437950.80	
36	**B)First Floor: -**	Sqm			201.14	6088.94	1224729.39	201.14	1224729.39	
37	KSRB 15-17.4 : Applying priming coat over new wood surface and I or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.									
	A)Ground Floor: -	Sqm			253.34	56.65	14351.64	253.34	14351.64	
38	**B)First Floor: -**	Sqm			471.70	60.84	28698.30	471.70	28698.30	
39	KSRB 15-17.6 Providing and applying painting two coats (excluding priming coat) on new wood surface and I or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as perspecifications.									
	A)Ground Floor: -	Sqm			253.34	109.89	27839.40	253.34	27839.40	
40	**B)First Floor: -**	Sqm			471.70	114.09	53816.40	471.70	53816.40	
41	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq cm working pressure of outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM and testing complete as per specifications. 90 mm dia	Mtr			30.00	430.51	12915.30	30.00	12915.30	
42	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold watersupply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing ofpipes and fittings with one step CPVC solvent cement & the cost ofcutting chases & making good the same including testing of jointscomplete. (Concealed work including cutting chases and good the wallsetc). **20mm nominal OD pipes**	Mtr			30.00	266.24	7987.20	30.00	7987.20	

43	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold watersupply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing ofpipes and fittings with one step CPVC solvent cement & the cost ofcutting chases & making good the same including testing of jointscomplete. (Concealed work including cutting chases and good the wallsetc). **25mm nominal OD pipes**	Mtr			36.00	331.95	11950.20	36.00	11950.20
44	Providing and fixing Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot) size 12.5cms x7.5cms	Each			7.00	322.88	2260.16	7.00	2260.16
45	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.	Each			7.00	169.94	1189.58	7.00	1189.58
46	Providing and fixing in position brass gate valve withC.I wheel of approved quality (screwed end) 25mm nominal boreincluding cost of all materials, labour and HOM of equipments with allleads complete as per specifications.	Each			2.00	508.68	1017.36	2.00	1017.36
47	Providing and fixing to wall, ceiling and floor, low densitypolyethylene pipes 6.00 kgf/sq cm working pressure **140mm outsidediameter** with special flange, compression type fittings, wall clips, makinggood the wall, ceiling and floor, including cost of all materials, labourcharges, HOM of equipments and testing complete as per specifications.	Mtr			24.00	629.90	15117.60	24.00	15117.60
48	KSRB 11-11.8 Providing and fixing white vitreous china clay, surgeon type wash basin size 660 x 460 with a pair of 15 mm C.P. brass pillar taps with pair of elbow operated levers, C.I./M.S. brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification.	Unit			5.00	5217.10	26085.50	5.00	26085.50
49	KSRB 11-7.3 Providing and fixing **white vitreous china cly ,flat back lipped front urinal wash basin** of 430x260x350mm in the range of three 7.5 litres PVC automatic flushing cistern ,C.I /M.S brackets standards flush pipe and C.P brass spreaders ,with brass unions and G.I clamps painting of fittings and brackets ,cuttng and making good the wall and floor wherever required ,including cost of materials ,labour complete as per specifications.	No,s			3.00	6586.80	19760.40	3.00	19760.40
50	KSRB 13-6.1-1 Providing and fixing in position brass bib cock of approved quality 25 mm nominal bore including cost of all materials, labour and HOM of equipments with all leads, complete as per specifications	Each			12.00	267.37	3208.44	12.00	3208.44

51	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa Pattern of size 580 x 440 mm with integral type footrest, 100mm S or P trap, 10 litre low level, P.V.C. flushing cistern (all are approved make) with fittings, C.I./M.S. brackets, 32 mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification.	Pan				7.00	4785.45	33498.15	7.00	33498.15
52	Providing and placing on terrace, polyethylene waterstorage tanks with manhole lid and suitable locking arrangements,making holes of suitable diameter for inlet, outlet and over flow pipes,including cost of all materials, labour, transport charges, HOM ofequipments and testing complete as per specifications.(For 1000 litre capacity)	Nos				1.00	7735.58	7735.58	1.00	7735.58
53	KSRB 11-15.3: Providing and fixing 453x357mm rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing includng cost of materials, labour complete as per specifications.	Unit				5.00	1287.00	6435.00	5.00	6435.00
54	Providing and fixing CP brass towel rail 600mm length ,20mm dia with CP brackets ,fixed to wooden cleats with CP brass screws including cost of materials ,labour complete as per specification.	Each				2.00	763.59	1527.18	2.00	1527.18
	OTHER WORKS									
55	Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications	Cum				101.05	282.10	28506.21	101.05	28506.21
56	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m and lift upto 1.5 m including cost of all labourcomplete as per specifications.	Cum				101.05	227.72	23011.11	101.05	23011.11
57	**KSRRB M300-53.Construction of Embankment with Material Gravel/Murrum** KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification	Cum				23.87	368.20	8788.93	23.87	8788.93
58	KSRB 2.8. Providing and Filling in foundation with granite / trap broken metal 100mm. And down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications.	Cum				31.13	2751.86	85665.40	31.13	85665.40

59	KSRB 4-1 2 Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exceeding 15cms thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications	Cum			25.26	5780.16	146006.84	25.26	146006.84
60	Providing and constructing granite I trap I basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour,curing complete as per specifications.	Cum			35.12	5206.90	182866.33	35.12	182866.33
61	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications.	Cum			17.26	6211.80	107190.82	17.26	107190.82
62	KSRB 15.1.3 Providing flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm			64.00	159.74	10223.36	64.00	10223.36
63	Providing 20mm thick cement plaster (cement mortar 1:4) in single coat with cement mortar, to stone masonry & concrete surface including rounding off comers wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.	Sqm			21.92	307.02	6729.88	21.92	6729.88
64	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M20 for R.C.C works laid in 15 ems thick layers and well compacted by vibrating, curing, for foundations & Sub-Structure works with all lead and lifts etc., complete (Exclusive of cost of steel and fabrication charges.)	cum			31.81	6167.62	196173.49	31.81	196173.49
65	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications Specification noKBS 4.6.3,TMT bars Fe550	Tonne, s			0.76	99036.47	75267.72	0.76	75267.72
66	KSRB 4-6.4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS	Sqm			39.06	405.59	15842.35	39.06	15842.35
	ELECTRICTRIFICATIONS								

	Open conduit System. Supplying heavy gauge PVC								
67	conduit pee ... dia confirming to S 2509 with suitable size bends. plugs in case of RCC Ceding and RCC wall stone structure or rawf plugs in case of brick walls and cement plastering damaged Portion using heavy gauge saddles at an interval of 700mm using WF screws) 19/20 mm dia 2mm thick.								
	A) 19/20mm dia 2mm thick								
68	B) 25MM DIA 2MM thick	Mtr			160.00	56.65	9064.00	160.00	9064.00
		Mtr			140.00	73.43	10280.20	140.00	10280.20
69	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting necessary masonry patch work complete								
	a) 12"x12"x3" (300x300 76mm)								
70	b) 10"x7"x3" (1254x178x 76mm)	Each			8.00	121.68	973.44	8.00	973.44
71	c) 8"x6"x3" (203x152x76mm)	Each			4.00	91.26	365.04	4.00	365.04
		Each			6.00	76.58	459.48	6.00	459.48
72	Wring for lighting/power circuit using one of PVC insulated 100v grade. muftis and Copper conductor single core cable in open or consealed system of wing I Group A Matenals.								
	a) 1.5 sqmm								
73	b) 2.5 sqmm	Mtr			220.00	19.51	4292.20	220.00	4292.20
74	c) 4 sqmm	Mtr			180.00	30.63	5513.40	180.00	5513.40
		Mtr			120.00	44.16	5299.20	120.00	5299.20
75	Point wiring using copper wire with switch Supplying and wine., adopting loop system in existing PVC Conduit/casing coping using Copper PVC rivaled multi strand 2x1.5Somm copper wire with a 6Amps flush type SP commit switch shall be fixed on the existing plastic sheet /gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete lot each outlet. I. Point wiring using class A materials. a) Short point upto 31.1tr from tapping point to out let via switch.	Each			20.00	182.53	3650.60	20.00	3650.60
76	Supplying 6A flush/projected type socket and a 6 amps flush protected type SP switch either surface/flush mounting in a existing gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way.	Each			10.00	157.38	1573.50	10.00	1573.50
77	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches. regulators etc , and fixing on existing wood or metal box using N.F screws.	Sqcm			4000.00	0.23	920.00	4000.00	920.00
78	Supplying, fixing, wiring. earth electrode for grounding conduits. I C cutouts and other r requirements on the meter board using 40rnm du 1.90 thick GL pipe 25 rob long buried in a pit. . .The pa should be filled with equal proportion of salt and charcoal 150rnm alround the pipe to complete depth. The connection from the pipe to the conduit etc is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts. washers and checkouts etc. the pipe shall have 16 through holes of 122mm dia.	Each			2.00	2860.62	5721.24	2.00	5721.24

79	Supplying box type suitable for 28W T5 single / twin Lamp 8 suspension mounted luminaire 8 optical reflector. Prewired with HF electronic Ballast. push fit type tamp holders holders 8 main connectors. Channel Cover shag be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4' – 28 watts.	Each			24.00	1038.51	24924.24	24.00	24924.24
80	Fixing all types and as capacities fluorescent/ false ceiling/ spot light/ CFL fitting indoor on the wan/ ceiling/ rafters/ girders using 23/ 0.0076 twin twisted PVC insulated wires, required nos of round blocks and camps. A) On wall/ ceiling/ rafter/ girders.	Each			24.00	102.80	2467.20	24.00	2467.20
81	Supplying capacitor type ceiling fan complete with down rod lades. shackle. canopies etc.. for operation on 230 volts, 50 cycles Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system I 48 Sweep (1200mm) a) Regular model (Khaitan. Crompton Cleaves. Orient. Ploar, Bajaj. Usha Havells.Almonard).	Each			8.00	2492.42	19939.36	8.00	19939.36
82	Fixing a ceiling /wall mounting fan of all capacities and as types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely.	Each			10.00	145.81	1458.10	10.00	1458.10
83	Supplying and fixing of Procelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washers etc., complete a)63 Amps.	Each			5.00	245.47	1227.35	5.00	1227.35
84	Supplying of 1.1 KV LT UG cable having aluminnum conductor PVC extruded inner sheathed,galvanized, steel strip (except 2CX10Sqmm wire armoured) confirming to IS-3975 1990 (No. of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1.1988 & confirming to GTP of GROUP-A. a) 4 core 16 sqmm.	Mtr			150.00	147.28	22092.00	150.00	22092.00
85	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe on wall / on pole as required. In existing trench / duct. a) 6 sqm to 16 sqmm.	Mtr			120.00	11.33	1359.60	120.00	1359.60
86	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.	Each			10.00	222.39	2223.90	10.00	2223.90
87	Supplying and fixing miniature circuit breakes on existing C8 distribution boards using necessary ruing materials and wiring complete as -1-d-red .2. Group 'A'.								
	b) 40-63Amps SP	Each			5.00	710.17	3550.85	5.00	3550.85
88	d) 40-63Amps DP, Group A	Each			10.00	1146.56	11465.60	10.00	11465.60
89	Supplying and flung of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary eclamping arrangements for UG cable of 1.1 KV class.	Mtr			4.00	361.91	1447.64	4.00	1447.64
90	Supplying & fixing L.T.cast von pot heads suitable for 1.1 KV class UG cable filled will necessary bitumen/insulating compound complete with manna, damps. bolts, nuts and washers ect.	Each			2.00	293.72	587.44	2.00	587.44

91	Supply and fixing of backlite D.P/Socket/switch with /without neon indicator over existing wood board or flush mounting in plastic plates/ nitches 1. Using group 'A' material.	Each				8.00	203.51	1628.08	8.00	1628.08
92	Fabricating supplying and mounting MS box made out SWG sealable ea floor / wall mounting, fully weather proof with provision for bolter heat dissipation . provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with 'necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished ii-r approved colour enameled metal pan etc complete	Each				4000.00	0.35	1400.00	4000.00	1400.00
93	Supplying and fixing regular MCB distribution boards on wall/woodboard / flush mounting using reputed calmps. bead, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coaled painting etc. complete II Double Door. Group A.	Each				4.00	5389.76	21559.04	4.00	21559.04
94	Supplying exhaust fan of 1440 RPM of 300mm (12") size was bracket blades complete for light duty suitable to operate on 230V 50Hz. AC.	Each				2.00	1783.30	3566.60	2.00	3566.60
95	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire.	Each				2.00	432.19	864.38	2.00	864.38
96	Supplying and ruing cast Aluminium round or oblong type but head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp	Each				2.00	998.65	1997.30	2.00	1997.30
97	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring 5 years Warranty against any manufacturing defect working under standard electrical condition.	Each				20.00	1959.53	39190.60	20.00	39190.60
									Total RS	8827228.84
									12% of GST	1059267.46
									Grand Total RS	9886496.30

CERTIFICATE

1 Certified that the above work done is satisfactory completed to work.

2 Certified that the there is no debries have been cleared to site

Assistant Engineer
Ward No-04

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ಜೆ.ಕೆ.ಯು.ಡಿ. ಬೆಂಗಳೂರು-106

Assistant Executive Engineer
Yelahanka Sattelite Town Sub Division

Executive Engineer
Yelahanka Division